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10/614,339	07/08/2003	Clement Robertson	56162.000419	7869	
	24504 7590 10/17/2007 THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP			EXAMINER	
600 GALLERIA PARKWAY			KANG, SUK JIN		
STE 1500 ATLANTA, G	A 30339		ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary The MAILING DATE of this communication appeared for Reply	10/614,339 Examiner Suk Jin Kang	ROBERTSON, CI	LEMENT	
The MAILING DATE of this communication ap		Art Unit	1	
• •	Suk Jin Kang			
• •		2619		
• •	pears on the coversheet w	vith the correspondence ac	ddress	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailting date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).		
Status				
1)⊠ Responsive to communication(s) filed on <u>03 A</u> 2a)⊠ This action is FINAL . 2b)□ This 3)□ Since this application is in condition for allowal closed in accordance with the practice under A	s action is non-final. nce except for formal mat		e merits is	
Disposition of Claims				
4) ⊠ Claim(s) <u>1-33</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-33</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.			
Application Papers				
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on 08 July 2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Examine 11.	☐ accepted or b)☒ obje drawing(s) be held in abeya tion is required if the drawing	ince. See 37 CFR 1.85(a). g(s) is objected to. See 37 C		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application		

Application/Control Number: 10/614,339 Page 2

Art Unit: 2619

DETAILED ACTION

Drawings

1. Replacement sheets for the new drawings of Figure 14-19 have not been received as stated in applicant's submitted arguments/remarks.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2619

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nichols et al. (U.S. Patent # 6,356,557 B1) in view of Joshi et al. (U.S. Patent # 6,006,017).

Consider claims 1 and 12, Nichols et al. disclose a method and system for optimizing cell available (CLAV) status polling of a plurality of physical interface addresses, the method and system comprising the steps of: polling a plurality of PHY addresses to determine CLAV status (column 3 lines 56-61); receiving the CLAV status for each one of the plurality of PHY addresses (column 1 lines 38-63, column 3 lines 46-55); re-polling each PHY address with a CLAV status (column 5 lines 7-13), but may not expressly disclose determining whether the CLAV status could change for each PHY address and re-polling only each of the PHY address with the CLAV status that could change.

In the same field of endeavor, Joshi et al. disclose determining whether the CLAV status could change for each PHY address (column 4 lines 41-57, column 7 lines

Art Unit: 2619

29-36) and re-polling only each of the PHY address with the CLAV status that could change (figure 7, column 9 lines 3-16 and 25-38).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate CLAV statuses that could change as taught by Joshi et al. with the method and system as disclosed by Nichols et al. for the purpose of efficiently using available bandwidth.

Consider claim 23, Nichols et al. disclose polling a plurality of PHY addresses to determine CLAV status (column 3 lines 56-61); receiving the CLAV status for each one of the plurality of PHY addresses (column 1 lines 38-63, column 3 lines 46-55); and repoll only each of the PHY address with the CLAV status (column 5 lines 7-13), but may not expressly disclose a computer readable medium comprising a set of instructions for optimizing cell available (CLAV) status polling of a plurality of physical interface addresses and being adapted to manipulate a processor, determining whether the CLAV status could change for each PHY address, and re-polling only each of the PHY address with the CLAV status that could change

In the same field of endeavor, Joshi disclose a computer readable medium comprising a set of instructions for optimizing cell available (CLAV) status polling of a plurality of physical interface addresses and being adapted to manipulate a processor (column 16 lines 26-40), determine whether the CLAV status could change for each PHY address (column 4 lines 41-57, column 7 lines 29-36), and re-polling only each of the PHY address with the CLAV status that could change (figure 7, column 9 lines 3-16 and 25-38).

Art Unit: 2619

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate CLAV statuses that could change and a computer readable medium as taught by Joshi et al. with the method and system as disclosed by Nichols et al. for the purpose of efficiently using available bandwidth.

Consider **claims 2, 13, and 24**, and as applied to claims 1, 12, and 23, respectively, Nichols et al., as modified by Joshi et al., disclose the claimed invention, but may not expressly disclose wherein the CLAV status that could change comprises an inactive CLAV status.

Nonetheless, Joshi et al. further discloses wherein the CLAV status that could change comprises an inactive CLAV status (column 7, lines 19-36).

Consider **claims 3, 14, and 25**, and as applied to claims 1, 12, and 23, respectively, Nichols et al., as modified by Joshi et al., disclose wherein the CLAV status that could change comprises a completed cell transfer (column 1 lines 55-67).

Consider **claims 4, 15, and 26**, and as applied to claims 2, 13, and 24, respectively, Nichols et al., as modified by Joshi et al., disclose the claimed invention, but may not expressly disclose re-polling addresses with an inactive CLAV status.

Nonetheless, Joshi et al. further discloses re-polling addresses with an inactive CLAV status (column 4 lines 29-36, column 6 lines 20-31).

Consider **claims 5, 16, and 27**, and as applied to claims 3, 14, and 25, respectively, **N**ichols et al., as modified by Joshi et al., disclose wherein the step of repolling further comprises the step of: re-polling addresses having completed a cell transfer (column 5 lines 7-24).

Art Unit: 2619

Consider **claims 6, 17, and 28**, and as applied to claims 1, 12, and 23, respectively, Nichols et al., as modified by Joshi et al., disclose the claimed invention, but may not expressly disclose wherein re-polling of PHY addresses having an active CLAV status are avoided.

Nonetheless, Joshi et al. further discloses wherein re-polling of PHY addresses having an active CLAV status are avoided (column 8 lines 19-38).

Consider **claims 7, 18, and 29**, and as applied to claims 1, 12, and 23, respectively, Nichols et al., as modified by Joshi et al., disclose wherein the CLAV status comprises ability to receive a cell (column 1 lines 38-63).

Consider **claims 8, 19, and 30**, and as applied to claims 7, 18, and 23, respectively, Nichols et al., as modified by Joshi et al., disclose wherein a PHY address is re-polled within at least four bytes of a previous cell transfer (column 3 lines 62-67, column 4 lines 1-3).

Consider **claims 9, 20, and 31**, and as applied to claims 1, 12, and 23, respectively, Nichols et al., as modified by Joshi et al., disclose the claimed invention, but may not expressly disclose wherein the CLAV status comprises the ability to transmit a cell.

Nonetheless, Joshi et al. further discloses wherein the CLAV status comprises the ability to transmit a cell (column 2 lines 25-41, column 5 lines 17-38).

Consider **claims 10, 21, and 32**, and as applied to claims 1, 12, and 23, respectively. Nichols et al., as modified by Joshi et al., disclose the claimed invention,

Art Unit: 2619

Control Namber: 10/014,50

but may not expressly disclose wherein each PHY address with an inactive CLAV status is re-polled until the PHY address indicates an active CLAV status.

Nonetheless, Joshi et al. further discloses wherein each PHY address with an inactive CLAV status is re-polled until the PHY address indicates an active CLAV status (figure 7, column 9 lines 1-43).

Consider **claims 11, 22, and 33**, and as applied to claims 1, 12, and 23, respectively, Nichols et al., as modified by Joshi et al., disclose wherein the physical interface is a UTOPIA (abstract, column 3 lines 1-21).

Response to Arguments

4. Applicant's arguments filed on August 3, 2007 have been fully considered but they are most in view of the new ground(s) of rejection and are not persuasive.

Consider claims 1, 12, and 23, Applicant argues, on page 10 of the remarks, that "... Nichols and Joshi fail to disclose, teach, or suggest certain features in claims 1, 12, and 23...re-polling only each of the PHY address with the CLAV status that could change."

The Examiner respectfully disagrees with Applicant's argument because as recited in the above rejection, Joshi suggests a secondary station which will receive a specific poll in response to an initial general poll and an indication of active state from an idle state (figure 7, column 9 lines 3-16 and 25-38). Therefore, specific polling after that of a general polling (re-polling) of secondary stations (PHYS address), which can change from an active to idle state (status that could change), is suggested by Joshi.

Art Unit: 2619

Thus Nichols, in view of Joshi, discloses and suggests re-polling only each of the PHY address with the CLAV status that could change.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

- The prior art made of record and not relied upon is considered pertinent to 6. Applicant's disclosure.
- Any response to this Office Action should be faxed to (571) 273-8300 or mailed 7. to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

8. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Suk Jin Kang whose telephone number is (571) 270-1771. The examiner can normally be reached on Monday - Friday 8:00-5:00 EST.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Chau Nguyen can be reached on (571) 272-3126. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

Art Unit: 2619

Suk Jin Kang S.J.K./sjk

October 3, 2007

CHAU NGUYEN SUPERVISORY PATENT EXAMINER

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